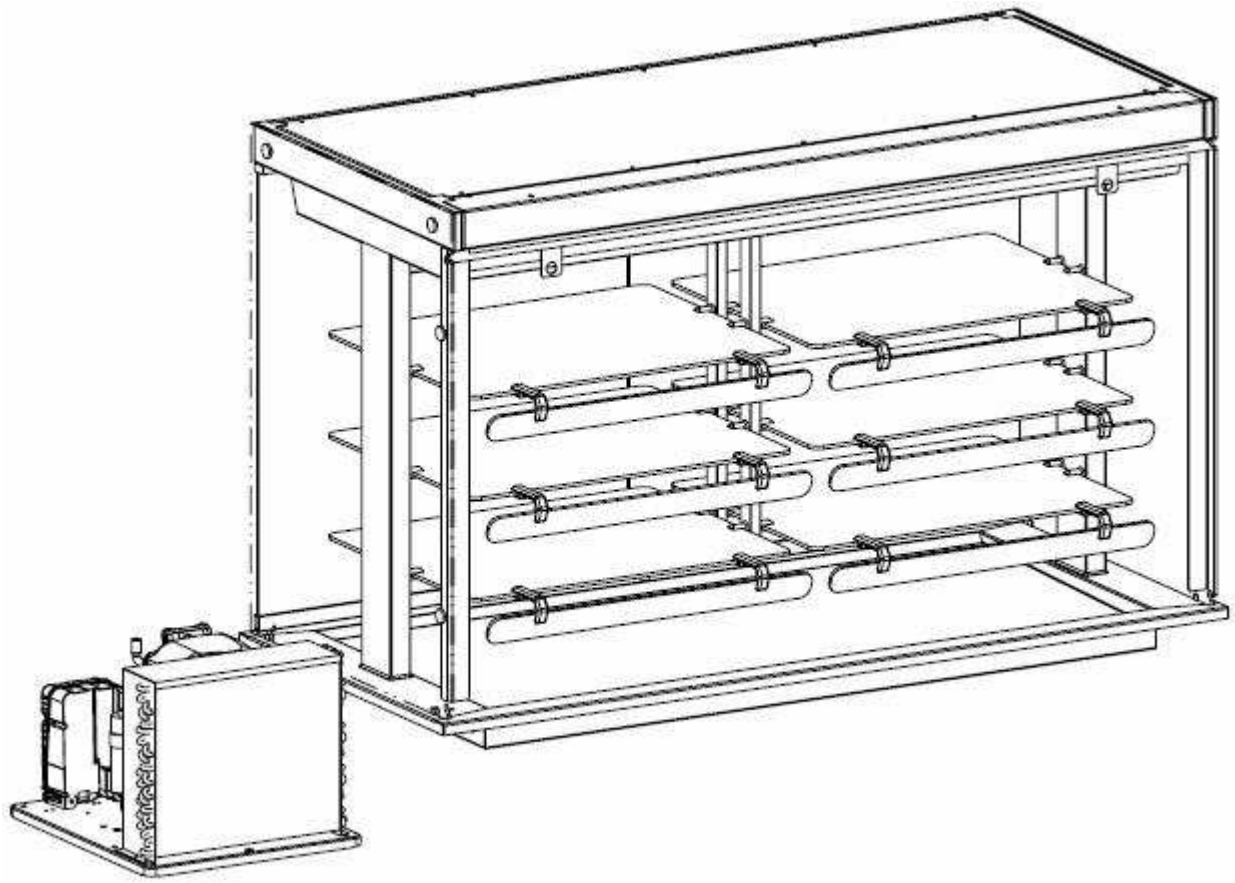
Vauconsant

USER MANUAL

VISIO-LINE – RAISED REFRIGERATED WELL WITH GLAS CABINET FOR SHORT-TERM SELF-SERVICE



A37013 (3GN): 1350 x 700 x 70+900 mm
A37015 (4GN): 1550 x 700 x 70+900 mm
A37019 (5GN): 1900 x 700 x 70+900 mm
A37022 (6GN): 2250 x 700 x 70+900 mm
A37025 (7GN): 2550 x 700 x 70+900 mm

"Child" version:

A37313 (3GN): 1350 x 700 x 70+730 mm
A37315 (4GN): 1550 x 700 x 70+730 mm
A37319 (5GN): 1900 x 700 x 70+730 mm

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Manual to be read and kept

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Introduction

Performance of the unit

The refrigerated well with glass cabinet for short-term self-service is designed to keep food at a maximum temperature of +8°C at core in 25°C room temperature for 1 1/2 hours after opening of the shutter.

The temperature of the food provided should be between 0°C and 3°C.

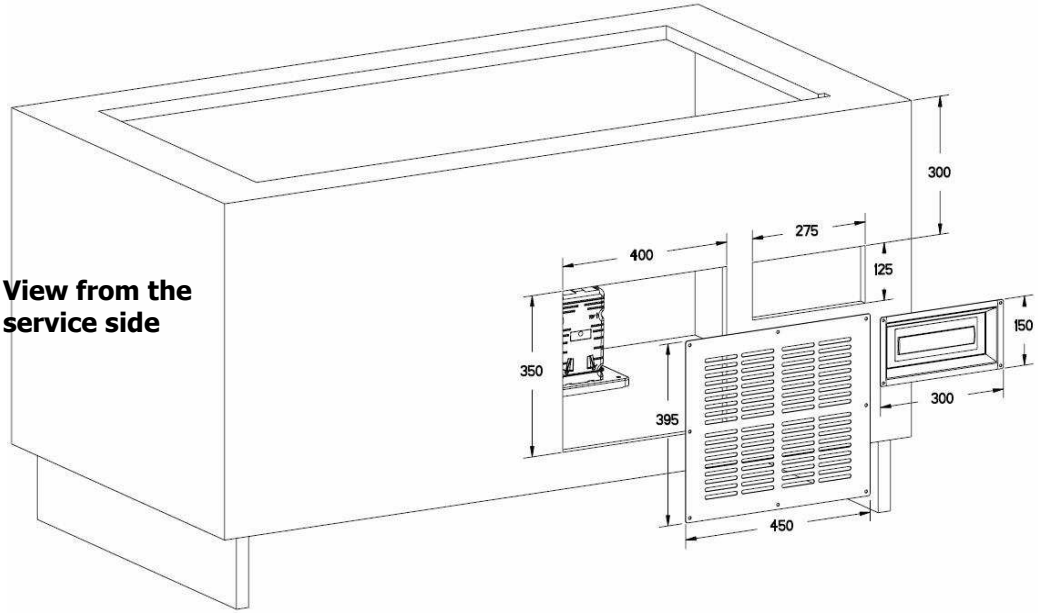
Performance tests have been conducted in laboratory with Tylose Pack Tests.

These units comply with applicable EC norms and should be installed and used following the instructions in this manual to ensure good performance and to be covered by the warranty.

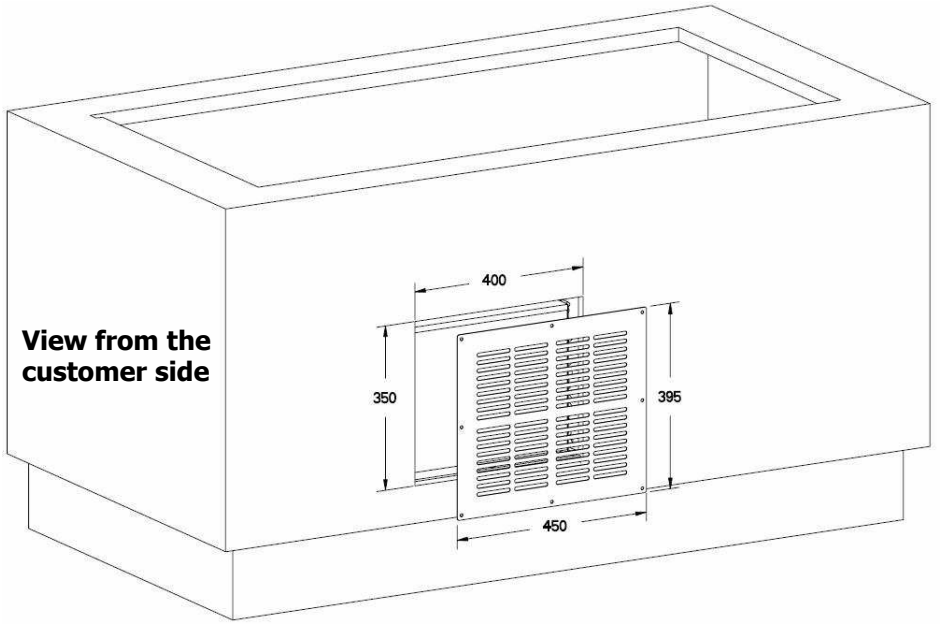
Installation

- ***Installation:***
  - Insert the module into the purpose-cut slot.
  - Mount the switch cabinet vertically, using its angle bracket.
  - Before connecting the switch cabinet (fuse holder) to the power grid, it is imperative to control its tension to adapt it to that mentioned on the manufacturer' plate of the unit. The mains supply should be protected by a differential circuit breaker.
  - The switch cabinet must be located in **closed premises**.
  - Seal the top with a silicone joint.

View from the service side



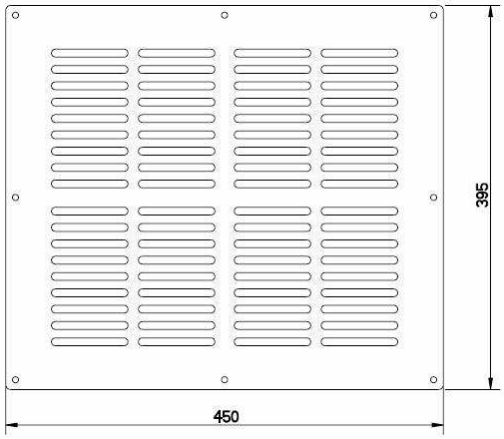
View from the customer side

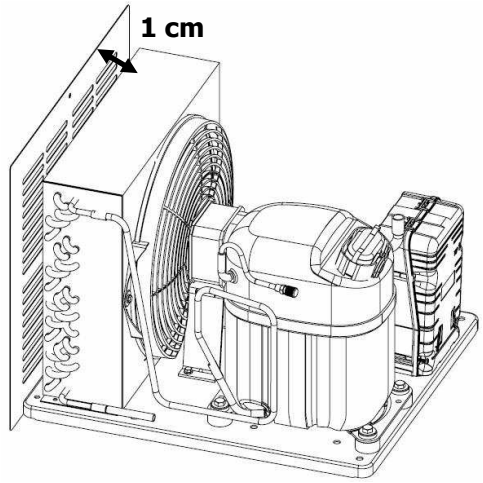


Refrigeration connection

Installation of the condensation generator

The condensation generator should be positioned facing the ventilation grid provided which is the same format as the condenser.
It is imperative to position the condenser **as close as possible** (1 cm) to the ventilation grid.





Connect the refrigerating circuit, following the refrigeration diagram.

- **Option with condensation generator supplied**

Tightening of self drilling connections

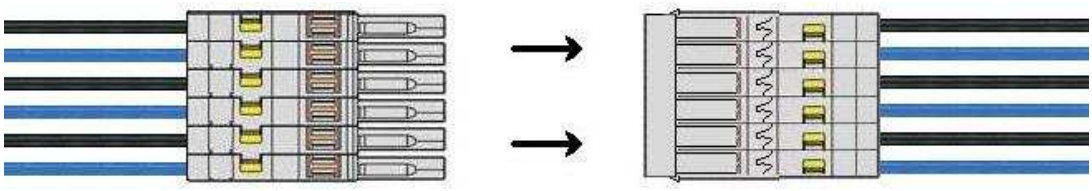
Tightening of connections with protective cap

1. Manually tighten both ½ female and male connections with protective cap
2. Use two flat 27/33 spanners to strike the ½ protective caps
3. Continue to tighten to obtain the tightness (2 cycles of tightening force)
4. Test tightness with soapy water or a leak detector
5. Repeat the operation with both ¼ female and male connections with protective cap (identified with red tape) using 21/19 flat spanners.

Before tightening

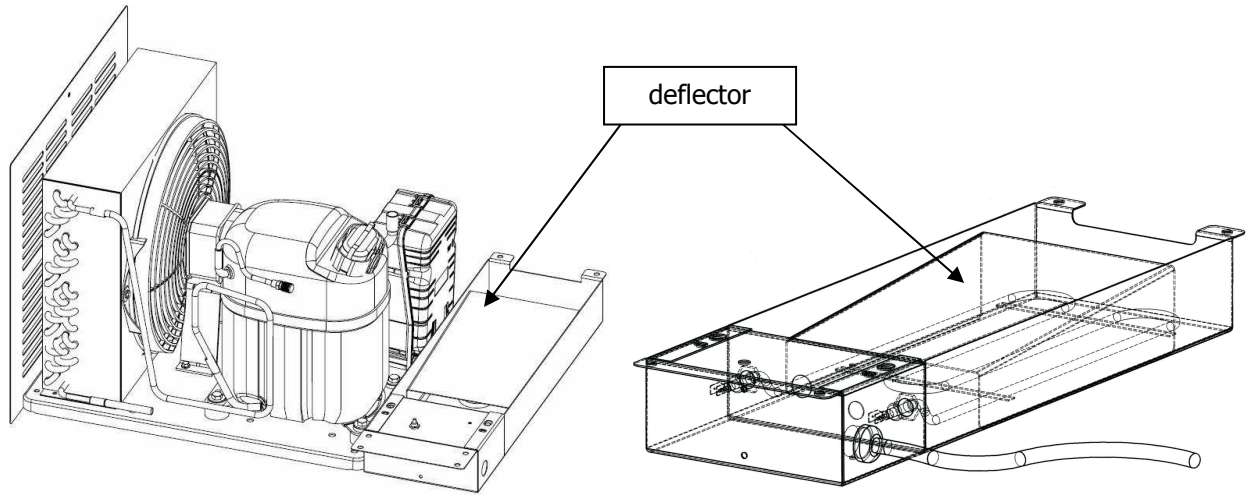
After tightening

Connect the pluggable connectors



Evaporation tray option

- The tray should be preferably positioned in front of the generator to facilitate exit of condensate vapours and avoid hot air intake.
- The evaporation tray's supply cable should be connected to the socket installed in the electric panel of the unit.
- The deflecting sheet placed in the evaporation tray is used to guide the steam. It should be positioned at the centre of the evaporation tray (or should have the same play each side of the sheet) and should follow the incline direction, as shown on the diagrams below.



- Mount the draining tube on the plug, not forgetting the joint supplied. Place the tube at the other end in the clip provided on the evaporation tray.

NB: The evaporation tray is only designed to evacuate defrosted water.

Installation of the ventilated evaporation tray

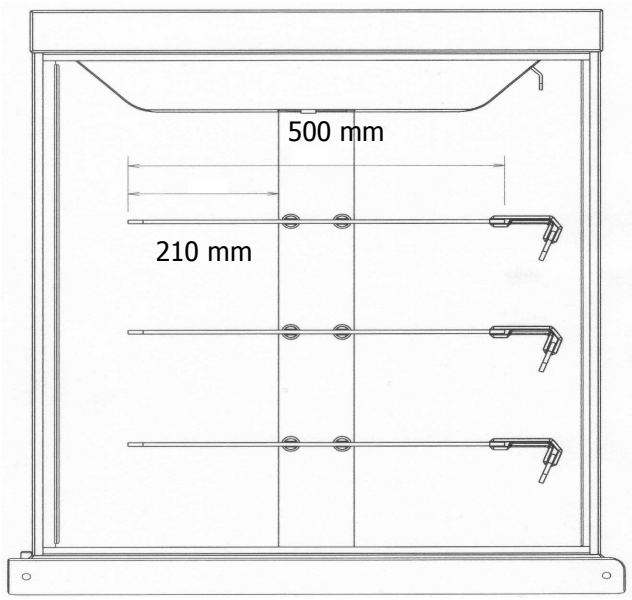
If the generator is at a distance, the tray should be placed in front of a grid to facilitate output of condensate vapours.

- **Option with condensation generator not supplied**

The connection should be done by a professional refrigeration expert.

Installation of the shelves

To ensure smooth operation of the glas cabinet, it is imperative to set the position of the shelves according to the diagram below:



Commissioning / Use

- ***Commissioning:***

  Switch the display, shutter closed, on two hours before filling it.

- ***Use:***

  Glas cabinet

  Press the thermostat button.
  Once the thermostat is on, the generator starts a minute afterwards (safety delay) to supply the glas cabinet.

  The thermostat is set in the factory after tests.
  When the temperature required is reached, the generator stops automatically.
  Press the thermostat button to stop regulation of the unit.

  Lighting
  Press the thermostat button to switch lighting on and off.

  Setting of the thermostat
  See section "User instructions for the XW40L thermostat"

  Automatic defrosting
  This function is built into the thermostat, it is set in the factory.
  See section "User instructions for the XW40L thermostat"

Cleaning

Always take care to switch off the appliance with thermostat before cleaning. This unit is not impermeable to water. Do not use a high pressure water jet to clean it inside or out.

Every day:

- **Metal surfaces:**

  Stainless steel should be cleaned with soapy warm water or a special product for high quality metal surfaces. Never use abrasive sponges or scourers to avoid scratching the surface.

- **Glass:**

  Clean using a high quality glass cleaning product and clean cloth. Never use abrasive sponges or scourers to avoid scratching the surface.

Diagnostic

Symptoms	Possible causes	Remedies
The generator does not start	No electricity supply	Switch on the thermostat
	Thermostat off	Check the general circuit breaker Check the fuse in the switch cabinet
	Faulty supply	Check tightening of the lugs and wires on all the internal and external cabling of the switch cabinet
Thermostat displays P1	Faulty probe	Replace the probe
Icing up of the evaporator	The unit is not level	Put the unit level
	Incorrect settings	Configure the thermostat to the settings supplied in this manual.
Thermostat switched on No Cold COMP light off	Incorrect settings	Check settings of the thermostat.
	DEF light on	Defrosting period. To delete it, switch the thermostat off and back on again.
Thermostat switched off No Cold COMP light on	Incorrect settings	Check settings of the thermostat.
	Faulty connections	Check the generator's connections
Not enough ventilation	Faulty ventilators	Check the outlet voltage. Check the voltage on the ventilators. If the voltage is right, replace the faulty ventilator(s)
	Icing up	See the icing up section above

NB

Fuses should be replaced by the same type and caliber.

If you have not solved your problem, contact a refrigeration expert.

Maintenance

Always remember to **switch off** the appliance by opening the fuse holder before any maintenance operations.

- **Features:**

		Power		
Reference	Capacity	Refrigeration	Electric	
A37013 & A37313	3GN	1185 W	1450 W	Evaporation tray option + 600 W
A37015 & A37315	4GN	1185 W	1900 W	
A37019 & A37319	5GN	1440 W	2350 W	
A37022	6GN	1727 W	2800 W	
A37025	7GN	2126 W	3270 W	

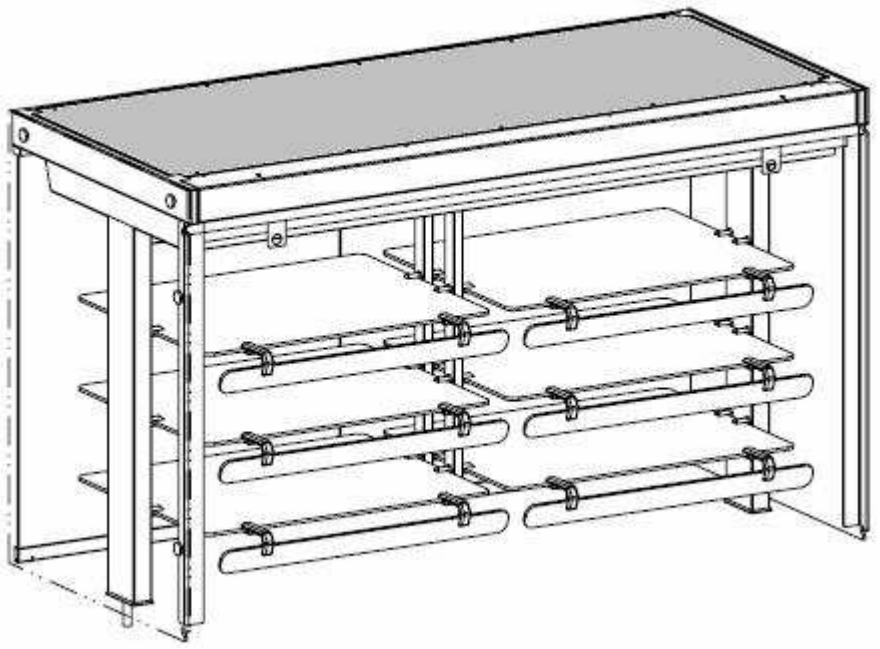
- **Procedures:**

Every 4 months, check that the condenser is not blocked and clean it properly.

Every year, check:

- That the condenser ventilator works properly
- That the evaporator ventilators work properly

To access the evaporator and ventilators, dismantle the grey sheet (see diagram below)



The installer should check electric connections when commissioning the unit then once a year.

Any maintenance operations should be done by a professional.

User instructions for the XW40L thermostat

1. Warning

- **<u>Important</u>: disconnect electrical connections before any intervention.**
- **The appliance should not be opened.**
- In the event of a breakdown, send the appliance to Vauconsant, with a detailed description of the problem observed.

2. General description

The **XW 40L** is a regulator with microprocessor aimed at medium or low temperature refrigeration applications. It has 3 relay outputs to control the compressor, light and ventilator and 1 NTC or PTC probe input to control temperature.
Regulation is obtained by the temperature measured by an atmospheric probe with positive differential with respect to the set point: when the temperature increases and reaches the set point plus the differential, then the compressor starts. It stops when the temperature reaches the set point again.

3. Keyboard

v

To display and modify the set point. In the programming mode, used to select a setting or confirm an operation.
By pressing this key for 3 seconds when the maximum or minimum temperature is displayed, it will be erased.

To display the maximum temperature recorded. In programming mode, is used to browse through the list of settings or increase the displayed value. By pressing this key for 3 seconds, the rapid refrigeration cycle starts.

To display the minimum temperature recorded. In programming mode, used to browse through the list of settings or reduce the displayed value.

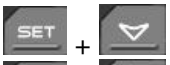
By keeping it pressed down for 3 seconds, defrosting starts.

Starts or switches off lighting

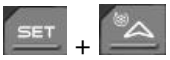
Switches the appliance on or off.

<u>COMBINED KEYS</u>

To lock or unlock the keyboard.



To enter programming mode.



To leave programming mode.

a. Lock and unlock the keyboard

<u>LOCK THE KEYBOARD</u>

	Press the and keys at the same time for more than 3 seconds. The "POF" message is displayed and the keyboard is locked. It is then only possible to see the set point, minimum and maximum temperatures and activate or disactivate the lights and regulator.

UNLOCK THE KEYBOARD

Press the and keys at the same time for more than 3 seconds. The "POn" message is displayed and the keyboard is unlocked.

b. Meaning of the LEDs

The function of each LED is described in the following table:

LED	MODE	FUNCTION
❄	ON	Compressor on.
❄	Flashing	Programming phase (flashes with ✣) Anti-short cycle on
✣	ON	Ventilator on
✣	Flashing	Programming phase (flashes with ❄)
❄	ON	Defrosting on
❄	Flashing	Drainage in progress
	ON	Rapid refrigeration cycle on
	ON	Signals an alarm In "Pr2" indicates the settings also present in "Pr1"
	ON	The light is on

c. Display the minimum temperature

Press and release this key.
The "Lo" message is displayed followed by the minimum temperature recorded.
By pressing this key again or waiting 5 seconds, the normal display returns.

d. Display the maximum temperature

Press and release this key.
The "Hi" message is displayed followed by the maximum temperature recorded.
By pressing this key again or waiting 5 seconds, the normal display returns.

e. Reboot minimum and maximum temperatures

To reboot the recorded temperature, when the maximum or minimum temperature is displayed, press on the SET key until the "rST" code starts to flash.

N.B.: After an installation, reboot the recorded temperature.

f. Display and modify the set point

Press the SET key and release it immediately: the set point value is displayed.
The SET LED flashes.
To change the value, press or within 10 seconds.
To store the new set point value, press the SET key again or wait 10 seconds.

g. Start manual defrosting

Press the DEF key more than 2 seconds and manual defrosting starts.

h. Enter the Pr1 programming mode

To enter "Pr1" (settings accessible to the user):

Enter the programming mode by pressing simultaneously on the SET and DOWN keys for a few seconds (✣ and ❄ flash).
The regulator displays the 1st setting in "Pr1".

i. Enter the Pr2 programming mode

To access settings present in "Pr2" (accessible to technicians), please contact Vauconsant, who will give you the secret code to access these settings.

4. Alarm signals

Message	Cause	Outputs
"P1"	Atmospheric probe fault	ON alarm output Compressor output depending on "COn" and "COF" settings
"HA"	High temperature alarm	ON alarm output Other outputs unchanged
"LA"	Low temperature alarm	ON alarm output Other outputs unchanged
"EE"	Memory breakdown or fault	ON alarm output Other outputs unchanged

The alarm message is displayed until the alarm condition is reestablished. All alarm messages are displayed alternately with the atmospheric temperature except for "P1" which flashes. To reboot the "EE" alarm and start normal operation again, press on any key. The **"rSt"** message will be displayed for 3 seconds.

a. The EE alarm

The regulator includes an internal memory checking system. The **"EE"** alarm flashes when an internal memory fault has been detected. In this case, the alarm output is activated.

b. Alarm reset

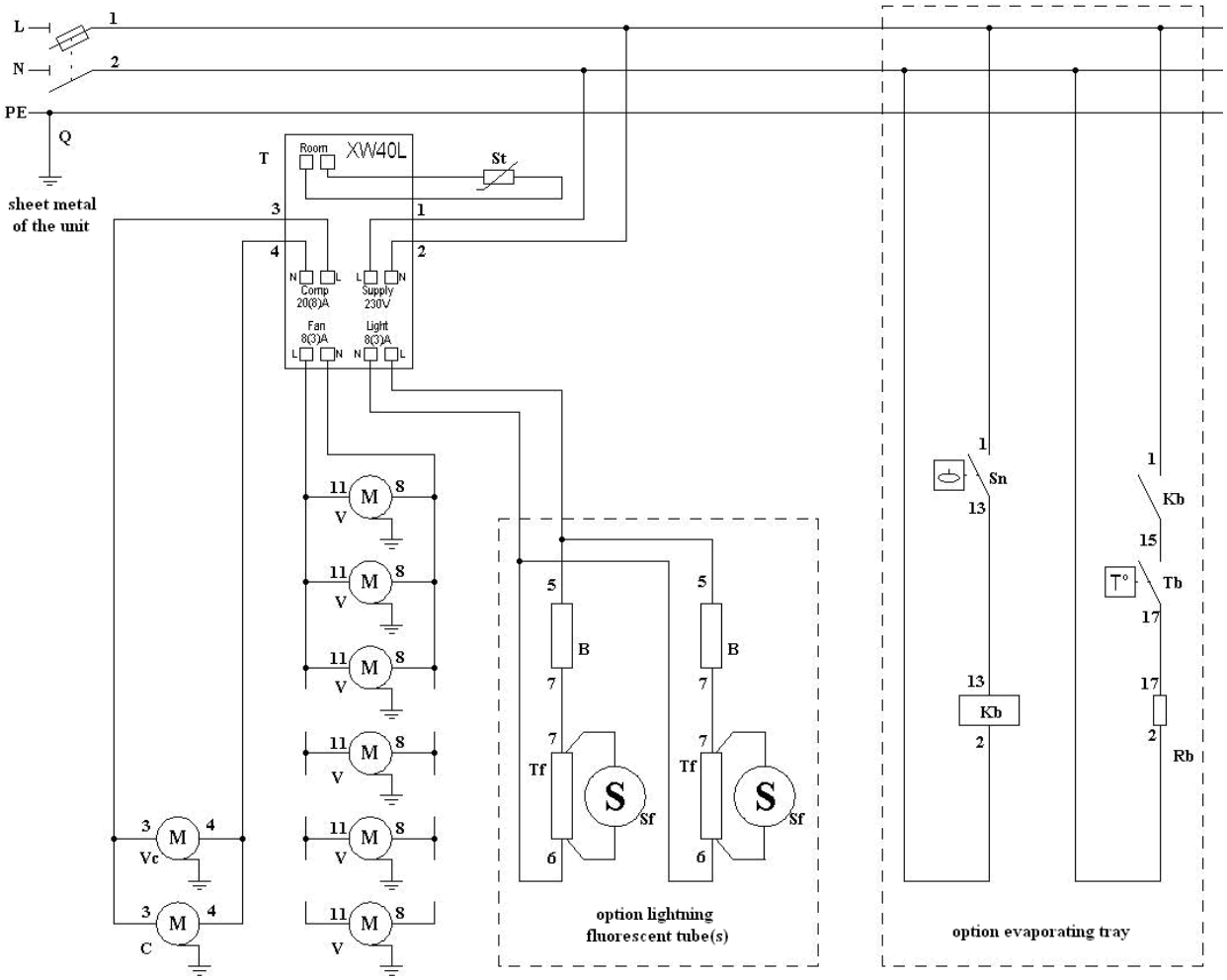
"P1" probe alarms (probe defect), **"P2"**: they stop automatically 10 seconds after the probe has resumed normal operation. Check the connections before putting back the probe.
"HA" and**"LA**" temperature alarms: they stop automatically when the regulator's temperature returns to normal values or when defrosting starts.

5. Settings programmed in the factory

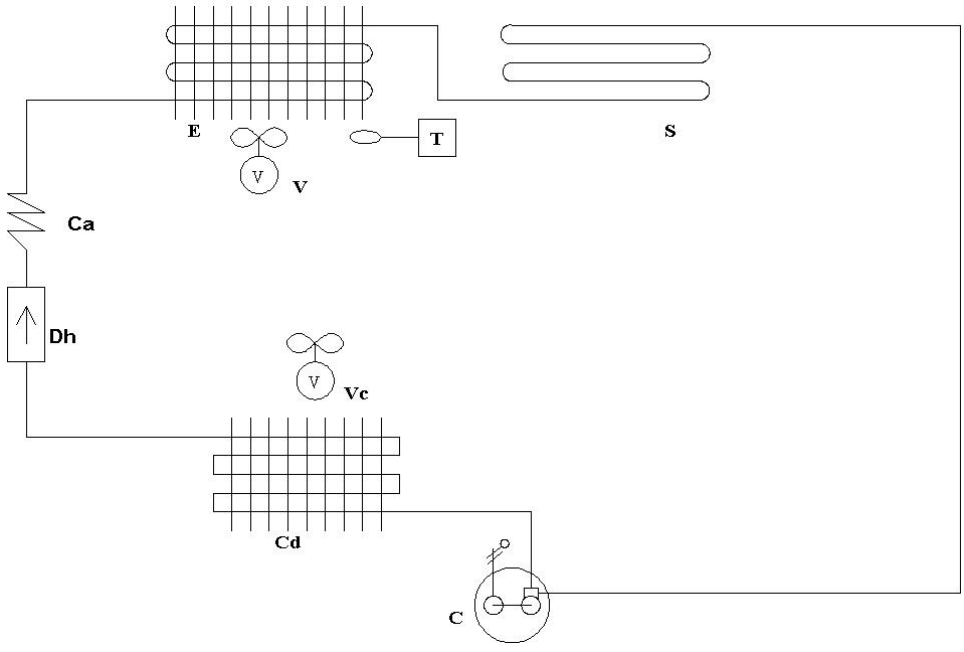
Setting	Name	Value
Set	Set point	3
Hy	Differential	1
AC	Anti-short cycle time	1
rES	Resolution	dE
IdF	Interval between defrosting cycles	7
MdF	(Maximum) defrosting time	0
ALU	High temperature alarm	8
ALL	Minimum temperature alarm	2
ot	Atmospheric probe calibration	0
Adr	Serial address (not used)	1
P2r	Access to the list of protected settings (read only)	

Generator option supplied

Electric diagram

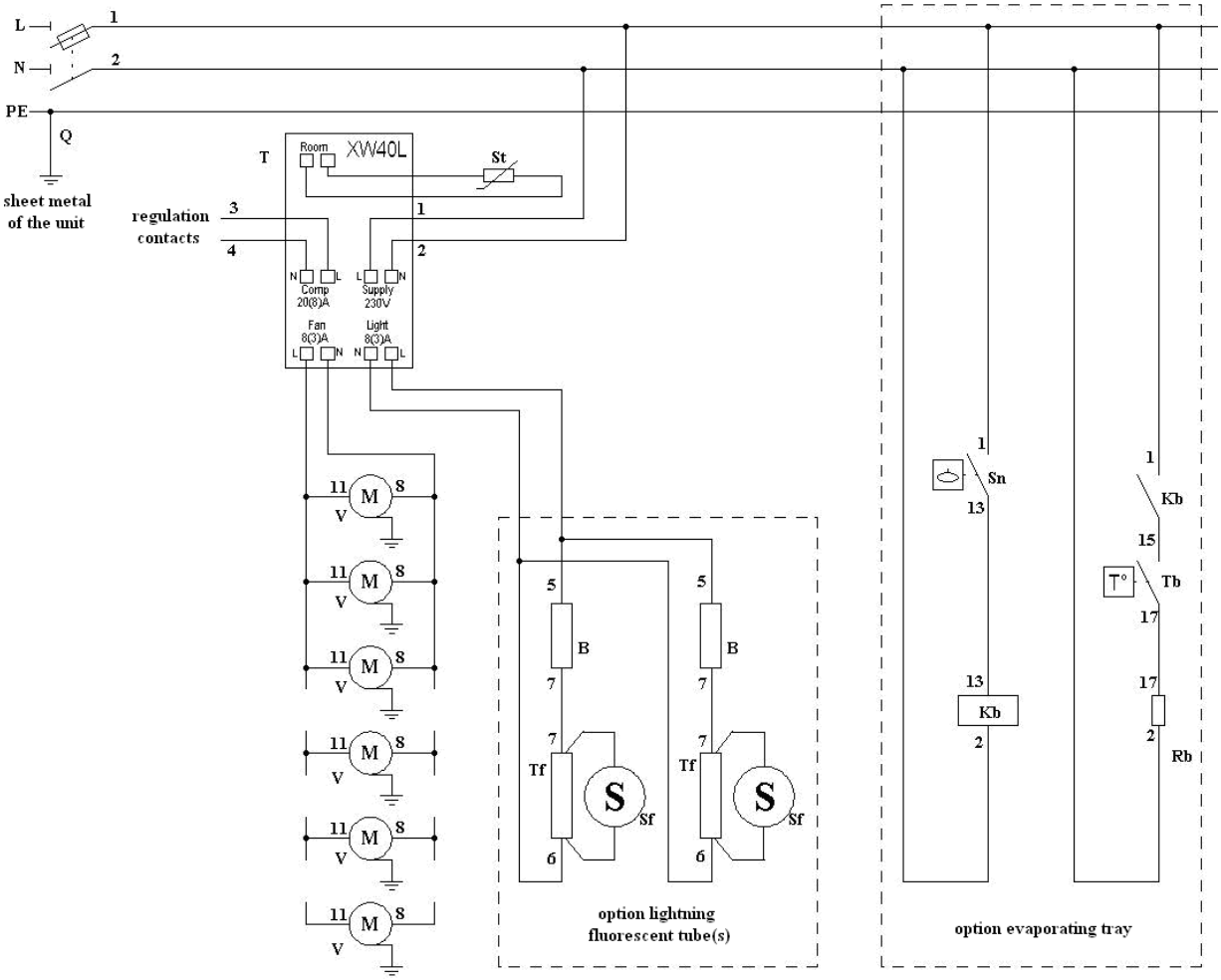


Refrigeration diagram

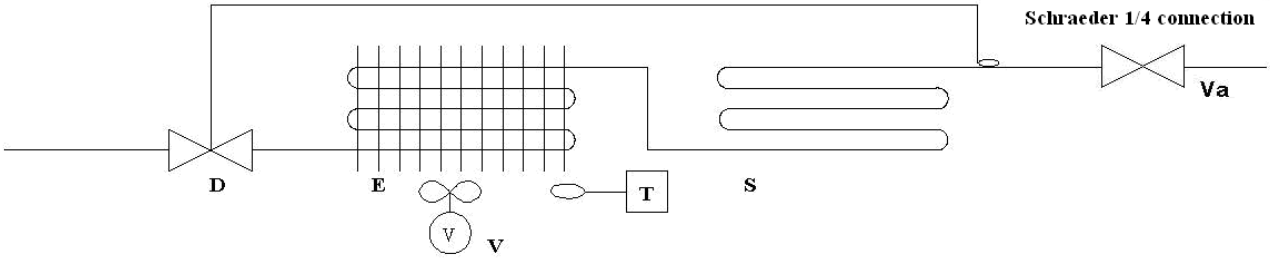


Generator option not supplied

Electric diagram



Refrigeration diagram



Caption

B	Ballast	S	Coil
C	Compressor	Sf	Starter
Ca	Capillary	Sn	Evaporation tray water level probe
Cd	Condenser	St	Temperature probe
D	Reducing valve	T	XW40L thermostat
Dh	Dehydrator	Tb	Evaporation tray safety thermostat
E	Evaporator	Tf	Fluorescent tube
Kb	Evaporation tray contactor	V	Display ventilator
Q	Fuse holder	Va	Schraeder ¼ connection
Rb	Evaporation tray heating element	Vc	Condenser ventilator

Spare parts

Code	Name	Unit capacity				
		3GN	4GN	5GN	6GN	7GN
Accessories						
03.1200	[CHILD] Glass sliding doors, 6 mm thick, 952x631mm			X		
03.1203	[CHILD] Glass sliding doors, 6 mm thick, 777x631mm		X			
03.1204	[CHILD] Glass sliding doors, 6 mm thick, 677x631mm	X				
03.1206	[CHILD] Glass sliding doors, 6 mm thick, 1277x801mm					X
03.1208	Glass sliding door 1127x801mm, 6mm thick				X	
03.1210	Glass sliding door 952x801mm, 6mm thick			X		
03.1212	Glass sliding door 777x801mm, 6mm thick		X			
03.1214	Glass sliding door 677x801mm, 6mm thick	X				
03.1216	Side glass 6 mm thick 685x730mm	X	X	X		
03.1224	Side glass 6 mm thick 685x900mm	X	X	X	X	X
03.1498	Glass shelf, 6 mm thick, rounded corners, 1122x500mm	X				
03.1501	Glass shelf, 6 mm thick, rounded corners, 637x500mm		X			
03.1511	Glass shelf, 6 mm thick, rounded corners, 812x500mm			X		
03.1523	Glass shelf, 6 mm thick, rounded corners, 987x500mm				X	
03.1533	Glass shelf, 6 mm thick, rounded corners, 1137x500mm					X
03.2048	Breath shield, 6 mm thick, rounded corners, 1122x50mm	X				
03.2054	Breath shield, 6 mm thick, rounded corners, 637x50mm		X			
03.2064	Breath shield, 6 mm thick, rounded corners, 812x50mm			X		
03.2074	Breath shield, 6 mm thick, rounded corners, 987x50mm				X	
03.2084	Breath shield, 6 mm thick, rounded corners, 1137x50mm					X
09.3130	PVC textile automatic rolling shutter, 1265 mm long	X				
09.3132	PVC textile automatic rolling shutter, 1,455mm long		X			
09.3134	PVC textile automatic rolling shutter, 1,805mm long			X		
09.3136	PVC textile automatic rolling shutter, 2,155mm long				X	
09.3138	PVC textile automatic rolling shutter, 2,455mm long					X
Electric equipment						
12.0273	Dixell XW40L thermostat	X	X	X	X	X
12.0425	Evaporator tangential ventilator	X	X	X	X	X
Refrigerating equipment						
12.2420	Evaporator length 1,070 mm	X				
12.2425	Evaporator length 1,260 mm		X			
12.2430	Evaporator length 1,610 mm			X		
12.2435	Evaporator length 1,960 mm				X	
12.2440	Evaporator length 2,260 mm					X

Compressor generator						
12.2780	CAE 9480 ZMH condensation generator	X	X			
12.2830	CAE 9510 ZMH condensation generator			X		
12.2800	CAE 9513 ZMH condensation generator				X	
12.2806	CAE 4517 ZH 517F condensation generator					X

Fluorescent tube lighting						
06.4782	895mm 30W power fluorescent tube				X	
06.4784	970mm 36W power fluorescent tube	X	X			X
06.4788	1,500mm 58W power fluorescent tube			X		
06.4810	Ballast for 30W tube				X	
06.4812	Ballast for 36W tube	X	X			X
06.4813	Ballast for 58W tube			X		
06.4828	Water resistant sheath for 895/970mm tube	X	X		X	X
06.4826	Water resistant sheath for 1,500mm tube			X		

Technical support

sav@vauconsant.com
Spare Parts Department: +33 (0)3 83 45 82 78
Hotline: +33 (0)3 83 45 44 48
Fax: +33 (0)3 83 45 82 75

Warranty

The appliance's warranty applies as of the **shipment date** from our factory in Dombasle Sur Meurthe (France) for a period of **12 months**. **It does not cover breakage of the glass.**

To benefit from the warranty, the buyer should order by fax or email, specifying the warranty application with appliance reference found on the identification plaque. On reception of the appliance, the buyer should return and pay shipment for the defective appliance, within fifteen working days. Any appliance not returned shall be invoiced. Any appliance bought from another supplier may not benefit from a credit as covered by the warranty.

Transport and labour costs are to be paid by the buyer.

The buyer is invited to make any reservations to customers for appliances stored without commissioning on delivery, particularly for refrigerated and electrical equipment.

The warranty does not extend to wear caused by defects or poor maintenance of equipment or damage caused by knocks or improper use.

Any warranty also excludes incidents caused by fortuitous events or force majeure, unidentified causes or causes by the buyer's actions of any form whatsoever: improper location, faults linked to use (operation, maintenance not in accordance with this manual, unqualified staff, etc.), modification of the equipment, repair conducted outside the terms of this manual, spare parts, etc.

Liability

Vauconsant's liability is strictly limited to the obligations defined above and it is formally agreed that Vauconsant shall not be required to pay compensation.

Under no circumstances shall Vauconsant be required to pay compensation for any immaterial or indirect damage such as: loss of business, loss of profit, loss of an opportunity, commercial prejudice, shortfall.

In any case, Vauconsant's civil liability, for all causes, with the exception of corporal damage and fraud or serious misdemeanour, may not exceed the sum of the contract.

The buyer and its insurers shall not take legal action against Vauconsant and its insurance companies above and beyond the limits and exclusions set out above.